




EXTERNAL MEMORANDUM

To: Chatfield Watershed Authority Technical Advisory Committee

From: Alan J. Leak, P.E. 
Principal
RESPEC
720 South Colorado Blvd., Suite 410 S
Denver, CO 80246

Date: February 27, 2024

Subject: Application for Site Location Approval for the Roxborough Water and Sanitation District's O-Line Sanitary Sewer Interceptor Replacement

PROJECT SUMMARY

An application for site location approval for the Roxborough Water and Sanitation District's (District / Applicant) O-Line Sanitary Sewer Interceptor Replacement has been submitted to the Chatfield Watershed Authority (Authority) pursuant to the requirements of Section 22.8 of the Colorado Water Quality Control Commission (WQCC) Regulation 22. This section requires, among other things, submittal of the application to the local 208 management agency (the Authority) for review and comment on the application. The purpose of this application is to address the replacement of an existing sanitary sewer interceptor.

APPLICABLE CHATFIELD WATERSHED AUTHORITY (CWA) REGULATIONS/DOCUMENTS

- / Water Quality Control Commission Regulation 73
- / CWA Policy - Review Criteria for Site Location and Design Approvals (1/24/2022)

PURTANANT TIMELINE DOCUMENTATION

- / February 7, 2024 - The Applicant completed and submitted the Authority's Request for Review Form to the Authority.
- / February 7, 2024 - RESPEC notified the Applicant of the Authority's process for review of the application.
- / February 8, 2024 - Authority and RESPEC received from the Applicant a copy of the application for site location approval (and supporting documents).
- / February 8, 2024 - The Authority notified the Applicant that the submittal was reviewed and found to be complete.

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SITE LOCATION APPLICATION REVIEW

The Authority reviews site location applications based on the Authority's "Policy – Review Criteria for Site Location and Design Approvals". This review process ascertains whether the site location application fully addresses the following criteria:

- / Phosphorus Wasteload Allocation: The Applicant must demonstrate the annual phosphorus wasteload allocation is not in exceedance and/or provides a plan of how the Applicant will remain within the designated annual phosphorus wasteload allocation.
- / Phosphorus Concentration Limit: The Applicant must demonstrate that the WWTF will not exceed 1.0 mg/l total phosphorus as a 30-day average concentration.
- / Emergency Response Criteria (ERC): The Applicant must demonstrate that all Authority ERC are addressed.
- / Consolidation of Treatment Works: The Authority will consider whether the Applicant has met the requirements of Regulation 22 with respect to consolidation of treatment works.

FINDINGS

Upon RESPEC's review of the application for site location approval, we find the following in respect to the Authority's "Policy – Review Criteria for Site Location and Design Approvals":

- / Phosphorus Wasteload Allocation:
Since this application does not involve a wastewater treatment plant, review of a phosphorus wasteload allocation is not applicable.
- / Phosphorus Concentration Limit:
Since this application does not involve a wastewater treatment plant, review of a phosphorus concentration is not applicable.
- / Emergency Response Criteria (ERC):
The application was found to comply with the Authority's ERC.
- / Consolidation of Treatment Works:

The applicant states that the District has historically been active in consolidation of treatment works by discontinuing use of its wastewater treatment plant in 2007 and conveying both its wastewater and Lockheed Martin's wastewater to the Littleton/Englewood Wastewater treatment plant and eliminating two treatment plants upstream of Chatfield Reservoir. The District completed additional consolidation as part of this project by providing capacity in its existing O-Line interceptor to provide means for DWSD to convey their wastewater to their Chatfield Basin Water Reclamation Facility (CBWRF). Until DWSD's flow reaches a point where the CBWRF can effectively operate, RWSD has also agreed for DWSD to utilize currently unused capacity in its Roxborough Lift Station.

Flow from Dominion Water and Sanitation District (DWSD) will be required after 2028 to be treated by the Chatfield Basin Water Reclamation Facility (CBWRF). DWSD is currently in the process of designing the new CBWRF. Anticipated completion of the facility is 2026. After the facilities' construction DWSD will have adequate capacity at CWBRF to meet expected immediate future flows. This project will allow DWSD to convey their wastewater to the CBWRF.

The O-line Interceptor is designed to accommodate flows from both DWSD and the Roxborough Community. By consolidating both Roxborough Community flow and DWSD flow



into the O-Line, it eliminates the need for two interceptors along a similar flow path. This reduces operations and maintenance activities required for infrastructure in the area.

Based on the applicant's discussion of consolidation, we find that the Applicant has adequately addressed the requirements of Regulation 22 with respect to consolidation of treatment works.

CONCLUTIONS

The Applicant's has adequately addressed all the requirements of the Authority's "Policy – Review Criteria for Site Location and Design Approvals".

RECOMMENDATIONS

Based on the submitted application and supporting information provided by the Applicant and RESPEC's review, we recommend that the Authority Technical Advisory Committee (CWATAC) recommend the Division approve the site location application.